

U.S. Department of Energy Office of Engineering and Construction Management

Project Plan for the Project Assessment and Reporting System (PARS II)

> Version 1.0b January 29, 2009

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Title Page

Document Name:	Project Plan for the Project Assessment and Reporting System (PARS II), V1.0b
Publication Date:	January 29, 2009
Contract Number:	DE-AT01-06IM00102
Project Number:	1ME07, CLIN 2
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Change Control Page

The change control page is used to record information about the changes (i.e., additions, modifications, deletions) that have been made to this document.

Revision Date	Section & Title	Page Numbers	Summary Of Changes	Author
12/12/2008	All	All	Initial Document	J. Bernsen, K. Mong, N. Ayers
1/14/2009	All	All	Incorporate comments from client review of December 18 and 22, 2008 as documented in the conference record.	J. Bernsen
1/29/2009	All	All	Incorporate comments from client review of January 22, 2009. Updated Figures 1 and 3, Table 1, Section 3, Table 5, Table 6a, Section 6, Section 10, Table 11, and Appendix B.	J. Bernsen

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1 INTRODUCTION

1.1 Executive Overview

In September 2006, the Office of Engineering and Construction Management (OECM) commissioned Energy Enterprise Solutions, LLC (EES) to replace the Project Assessment and Reporting System (PARS). The new system, PARS II, will use a Commercial Off-The-Shelf (COTS) software suite of tools from Dekker, LTD. PARS II provides three major improvements.

- A web-enabled application for collecting project information.
- Detailed cost and schedule information from contractors on their project performance.
- Analytical and reporting tools for assessing and forecasting the status of projects.

Following completion of the requirements and Concept of Operations, this project plan proposes the path forward for building and implementing PARS II. Figure 1 presents a high-level view of the phases, major milestones, and major deliverables for the project. The strategy for the project approach is summarized below.

- Develop the Oversight and Assessment (OA) module and the Contractor Project Performance (CPP) module in parallel. (See the System Overview of the *Concept of Operations for PARS II*, V1.0 for details.)
 - o The OA module collects project information currently contained in PARS and ART and provides analytical and reporting tools.
 - o The CPP module collects detailed cost and schedule information, risk logs, and management reserve from contractors and provides variance analysis.
- Iteratively develop the modules using a discovery/build/test approach. Iterative development and early testing at sites is especially important for the CPP module.
- Deploy out-of-the-box functionality to a few field sites to determine its viability and understand field readiness. *Note: Additional ongoing deployment and assistance to field sites during the configuration of the software is out of scope of this plan and may require an additional task.*
- Begin transition planning, particularly for the CPP module, early in the project life cycle so that the DOE project community has sufficient time to prepare for the change.
- Conduct an initial test run of the software, documentation, training, and processes with selected sites/projects in the last four months of Calendar Year (CY) 2009

- Begin operations and maintenance in January 2010, with contractor project performance data being added to PARS II throughout CY2010 once the contractor can provide the data.
- Incorporate three checkpoints where the knowledge and experience gained to-date are assessed and plans are reviewed and if necessary modified to reflect the findings.

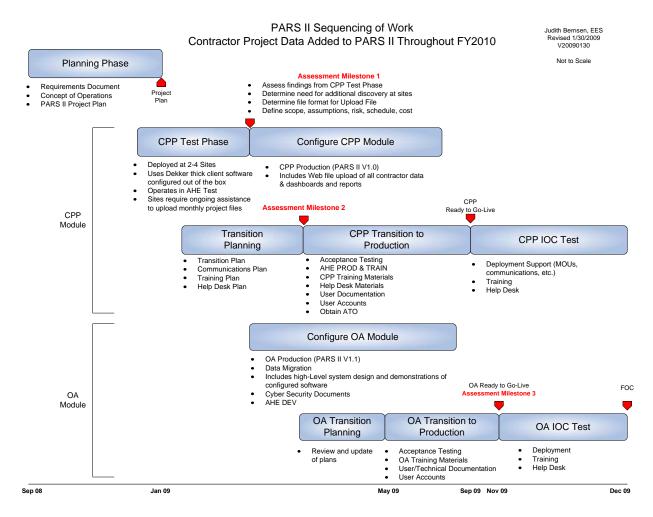


Figure 1 - PARS II Sequencing of Work

The dates for the major milestones are listed in Table 1 below.

Table 1 PARS II Major Milestones			
Milestone	Description	Planned Date	
Planning Phase Completed	Concept of Operations and PARS II plan completed and software and consulting services acquired	1/16/2009	
CPP Test Phase Completed	Deployment of Dekker thick client software to up to four field sites for purposes of determining software viability and understanding field readiness is completed.	2/28/2009	
CPP Transition Planning Completed	Communications, transition, training and data migration planning completed	5/31/2009	
CPP Software Configuration Completed	Dekker software configured to accept detailed project data from contractors and ready for acceptance testing	7/31/2009	
CPP Ready to Go-Live	PARS II certified and accepted by DOE and ready to begin deploying to contractors to send project data and to Federal Project Directors, OECM and programs to review and analyze contractor data	9/1/2009	
OA Software Configuration Completed	Dekker software configured to accept project data from Federal staff and ready for acceptance testing	9/30/2009	
OA Ready to Go-Live	PARS II ready to begin deploying to Federal Project Directors, OECM and programs to report, review and analyze project data	11/2/2009	
PARS II Operational	OECM and DOE programs are using PARS II for project reporting and analysis for all DOE projects; initial set of contractors are reporting project performance data monthly to PARS II; PARS I is no longer in use	1/4/2010	
PARS II Fully Deployed	All DOE contractors are reporting project performance data monthly to PARS II	9/30/2010	

The costs for design, configuration and deployment of PARS II are available from OECM.

1.2 Purpose of Document

The purpose of this document is to present the plan for designing and configuring the Dekker software suite for use at DOE and for planning for and implementing the deployment and transition to the new system. It is expected that this plan will be reviewed and updated at least three times.

1.3 Background

In 2001, the DOE Office of Engineering and Construction Management (OECM) MA-50, contracted with the Project Performance Corporation (PPC) to develop the Project Assessment and Reporting System (PARS). It is a web-enabled database application based on Earned Value Management System (EVMS) standards. Currently it is hosted by PPC at the https://pars.energy.gov site.

Since its creation, PARS has adapted to the changes in DOE'S requirements associated with project management oversight by using its original design and functionality. However, key stakeholders and users of PARS have reported deficiencies with the application. As a result, in September 2006, the Office of Engineering and Construction Management (OECM) commissioned Energy Enterprise Solutions, LLC (EES) to enhance PARS or acquire and implement a new Commercial Off-The-Shelf (COTS) application to replace the current PARS.

Activities which have occurred since project inception in 2006 are listed below.

2006 - September	PARS II requirements developed PARS II database, forms and reports prototyped
2008 - May	Vendor selection process completed with the selection of Dekker LTD, and OCEM notified EES on such a decision.
2008 – June	OECM subtask order to EES to acquire and implement a COTS application
2008 – October	Dekker subcontract to EES established Concept of Operations for PARS II. V1.0. Draft developed

1.4 Project Objectives

The primary goal of this project is to replace PARS with the Dekker PMIS software product and

¹ See the *Concept of Operations for PARS II, V1.0*, for further discussion of the background and PARS deficiencies.

to implement the application in such a way that it provides management, analysts and users with a "single source of truth" of data, to be presented in useful and meaningful formats. The primary objectives for the system are listed below.

- To implement PARS II CPP module data collection and reporting capabilities from DOE contractors at a lower level of detail, thereby providing transparency into contract project performance.
- To implement the PARS II OA module at locations across the complex, to collect and validate summary-level information, to integrate this summary-level information with contractor project performance data, and to provide stakeholders with a powerful and robust reporting system.
- To implement other required functionality, as described in the section titled "Scope of System" in the Concept of Operations for PARS II, V1.
- To address the deficiencies and limitations described in the <u>Deficiencies Section</u> in the *Concept of Operations for PARS II, V1*.

Figure 2 shows the major scope features and user roles for PARS II.

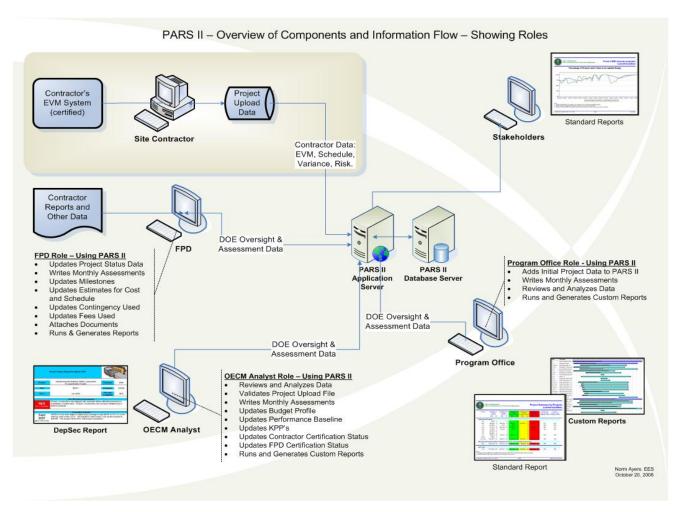


Figure 2 - Overview of PARS II Components and Roles

2 SCOPE

The scope of the PARS II project is described in Table 3.

Table 3				
11/20 //	PARS II Scope			
WBS#	WBS Element	Description The greater decumentation and continue (training and		
1	PARS II System	The system, documentation, and services (training and help desk, etc.) requested by OECM and the project management and services needed to support the construction of the solution.		
1.0	PARS II Software/Vendor Selection	CLIN 1 work completed prior to FY2008, including PARS II requirements and evaluation and selection of a COTS product and vendor.		
1.1	Project Management	Activities and documents related to managing the PARS II project until the system is fully operational. Including project planning, execution, monitoring, and reporting.		
1.2	PARS II Concept of Operations	The description of how the PARS II system is expected to operate in its intended environment. This document is non-technical in nature and is presented from the viewpoints of the various stakeholders. Includes work on the data dictionary.		
1.3	PARS II Requirements	The user requirements that the PARS II products must meet in order to be accepted. The majority of the requirements have been identified, documented and approved at this point. However, there will be ongoing requirements management for the remainder of the project life.		
1.4	CPP Test Phase	The deployment of Dekker thick client software to up to four field sites for purposes of determining its viability and understanding field readiness.		
1.5	PARS II Software Configuration	The configuration of the Dekker software suite to meet DOE's requirements as discussed in the PARS II Requirements Document and the PARS II Concept of Operations. Includes effort to make software corrections resulting from EES independent testing and user acceptance testing.		
1.6	PARS II "Portal"	A portal or web page that will provide news and links for users to register for an account and log in to PARS II.		
1.7	EES Software Quality Assurance	Independent systems testing and quality assurance by EES of Dekker configured software. Focuses on verifying that the software meets the functional and technical requirements and the concept of operations. Includes developing a test plan, conducting the testing, preparing a test evaluation summary and test results report, and tracking defects.		
1.8	PARS II Technical and User Documentation	Documentation to operate, maintain and use the PARS II system.		

	Table 3 PARS II Scope			
WBS#	WBS Element	Description		
1.9	C&A Certification	Documents and activities related to obtaining Authority to Operate (ATO). Also includes participating in testing and reviews of PARS II with the CFO Cyber Security Team.		
1.10	PARS II Transition Planning	Planning documents that focus on the requirements for deploying the PARS II system. Includes deployment/transition plan, communications plan, training plan, and data migration plan.		
		Development of the documents and services needed to support the installation and deployment of the PARS II system. The transition planning documents have defined the requirements for these deliverables which include training materials, set up of the AHE hosting environments, establishment of help desk support, data migration scripts, and providing support as needed to respond to information requests, gather user account		
1.11	Transition Preparation	information, and demonstrate the software. Activities related to supporting the project team as it develops and deploys the system, documentation, training, and services. Includes training of the project team on the Dekker software, setting up the development and test AHE environments, configuration management,		
1.12	PARS II Project Support PARS II 2009 Deployment	and quality assurance. Activities supporting the initial test run of the software, documentation, training and processes with selected sites/projects in the last four months of Calendar Year 2009.		
1.14	PARS II 2010 O&M and Deployment	Activities supporting the operations and maintenance of PARS II. Additional projects will be added once the contractor can provide the data.		
1.15	Transition Support	Ad hoc support focused on disseminating information about PARS II, including briefings, software demonstrations, Integrated Project Team (IPT) support, portal content and preparing/delivering communications.		

A detailed breakdown of the project scope is contained in Appendix A.

Table 4 lists the PARS II deliverables and the planned completion dates for draft versions.

Table 4 PARS II Deliverables		
Deliverable	Draft Due Date	Final Due Date
PARS II Project Plan V1.0	12/12/2008	1/16/2009
PARS II Project V1.1	3/4/2009	3/17/2009

Table 4 PARS II Deliverables			
Deliverable	Draft Due Date	Final Due Date	
PARS II Project Plan V1.2	5/20/2009	5/29/2009	
Project Status Reports	Weekly	N/A	
Meeting Minutes	As Required	N/A	
PARS II Concept of Operations V1.0	10/31/2008	11/2/2008	
Site Deployments at up to four pilot sites	2/17/2009	2/28/2009	
Security Documents (included unsigned MOU) V1.0 (Security Plan, COOP, Configuration Management Plan, ST&E Scripts) Ready for Delivery to Cyber Security Team	3/13/2009	4/14/2009	
Demonstrations of PARS II Screens and Reports	As Required	N/A	
PARS II Deployment/Transition Plan V1.0	4/30/2009	5/15/2009	
PARS II Communications Plan V1.0	2/11/2009	2/18/2009	
PARS II Training Plan V1.0	4/24/2009	5/8/2009	
PARS II System Test Plan	6/8/2009	6/15/2009	
PARS II Data Migration Plan	4/10/2009	4/17/2009	
PARS II User Guide V1.0	7/2/2009	7/17/2009	
PARS II Training Materials V1.0	6/19/2009	6/30/2009	
PARS II Training Materials V1.1	7/10/2009	7/31/2009	
PARS II Web Training	12/18/2009	12/31/2009	
PARS II COTS Software Configured V1.0	7/31/2009	N/A	
PARS II COTS Software Configured V1.0.3	9/30/2009	NA	
PARS II Help Desk Operational	6/17/2009	N/A	
PARS II Data Migration (from PARS 1/ART)	9/30/2009	12/31/2009	
PARS II Training V1.0	*	*	
PARS II Training V1.1	*	*	

Table 4 PARS II Deliverables			
Deliverable	Draft Due Date	Final Due Date	
AHE Test Environment	11/3/2009	N/A	
AHE Development Environment	1/21/2009	N/A	
AHE Training Environment	4/10/2009	N/A	
AHE Production Environment	5/12/2009	N/A	
Subcontract for Procurement of COTS Software	10/9/2009	N/A	
Subcontract for Procurement of Consulting Services	9/23/2008	N/A	

^{*}Due dates for completion of training for the initial deployment of PARS II will be established in the replanning after the Transition Phase planning.

Changes to deliverables formally accepted by OECM will go through the Change Control Process. All Requested Changes are reviewed and evaluated by the team, submitted by the Project Manager, and approved by the PARS II system owner before they are implemented on the system. Changes to the PARS II scope, as represented in the PARS II WBS in appendix A, will be formally negotiated between EES and OECM.

The Change Control and Configuration Management processes will be discussed in more detail in the PARS II Configuration Management Plan.

3 SCHEDULE

The implementation of the PARS II system is a significant undertaking, and requires extensive effort in design/configuration and deployment. The team recommends the PARS II work be divided into three major phases – Planning, CPP Module Implementation, and OA Module Implementation. Figure 3 presents a high-level view of the major phases, milestones, and deliverables for the project to show the proposed sequencing of work.

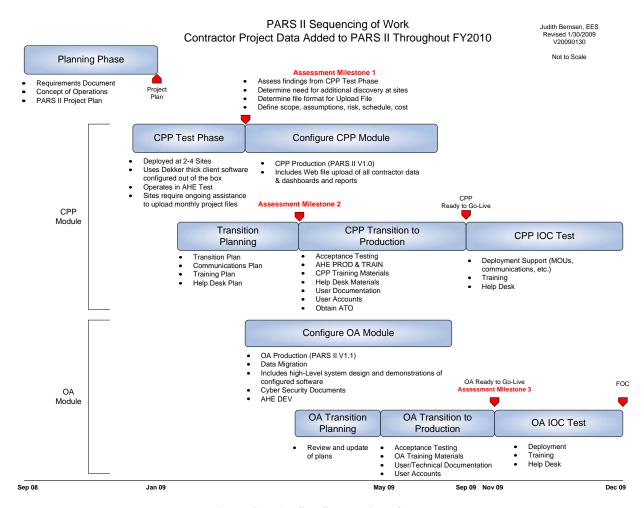


Figure 3 - PARS II Sequencing of Work

Phase 1 (September 2008 – December 2008) consists of project startup, acquisition, concept of operations and project planning for the PARS II application.

Phase 2 (December 2008 – December 2009) consists of configuring the Dekker software to meet DOE's requirements and preparing for its full implementation. The phase includes developing documentation and training, certification and accreditation of the system, acceptance testing, and deploying the Initial Operating Capability (IOC) to a limited set of DOE projects.

Phase 3 (January 2010 – September 2010) consists of continuing to add contractor project performance data once the contractor is able to provide the data. It is expected that all contractors will be reporting monthly to PARS II by the end of FY2010.

The PARS Maintenance Phase starting in FY2011 is not addressed in this Plan.

EES plans to review the PARS II Project Plan three times during the project lifecycle as follows.

- Assessment Milestone 1 occurs at the end of the CPP Test Phase. After assessing the findings from this phase, we determine, in concert with OECM, whether the CPP Test Phase should be extended to additional field sites and whether the information gained from the Phase changes any assumptions upon which the planned scope, cost, and schedule were developed for configuration of the CPP module. If additional intensive consulting with sites/contractors is needed to help them produce the data, EES and OECM will determine the best way to provide this assistance separate from this Plan.
- Assessment Milestone 2 occurs at the end of the PARS II/CPP Transition Planning Phase. After assessing the transition plans that were developed from this phase, we determine whether any assumptions upon which the planned scope, cost, and schedule that were developed for the CPP and OA transition work have changed. At this time we expect that the plans for the CPP and OA transition preparation and deployment will need refinement as some estimates, such as training and deployment support, were imprecise. We also, based upon the design work completed for the OA module, assess whether any assumptions upon which the planned scope, cost, and schedule were developed for configuration of the OA module have changed. If necessary, we refine the plan the OA configuration to address our findings.
- Assessment Milestone 3 occurs at the end of the PARS II OA Acceptance Testing. After
 assessing the results of training and deployment activities to-date, we can determine more
 accurately the level of effort and schedule required to operate and maintain PARS II in
 FY2010.

Table 5 lists the PARS II major milestones and their planned completion dates.

Table 5 PARS II Major Milestones			
Milestone	Description	Planned Date	
Planning Phase Completed	Concept of Operations and PARS II plan completed and software and consulting services acquired	1/16/2009	
CPP Test Phase Completed	Deployment of Dekker thick client software to up to four field sites for purposes of determining software viability and understanding field readiness is completed.	2/28/2009	
CPP Transition Planning Completed	Communications, transition, training and data migration planning completed	5/31/2009	
CPP Software Configuration Completed	Dekker software configured to accept detailed project data from contractors and ready for acceptance testing	7/31/2009	
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OA Software Configuration Completed	Dekker software configured to accept project data from Federal staff and ready for acceptance testing	9/30/2009	
OA Ready to Go-Live	PARS II ready to begin deploying to Federal Project Directors, OECM and programs to report, review and analyze project data	11/2/2009	
PARS II Operational	OECM and DOE programs are using PARS II for project reporting and analysis for all DOE projects; initial set of contractors are reporting project performance data monthly to PARS II; PARS I is no longer in use	1/4/2010	
PARS II Fully Deployed	All DOE contractors are reporting project performance data monthly to PARS II	9/30/2010	

The project schedule for the Level 3 WBS is contained in Appendix B.

4 COST
The cost for the design, configuration and implementation of PARS II are available from OECM.

5 PROJECT ORGANIZATION

The primary organizations involved in the implementation and deployment of PARS II are listed below.

OECM – the system owner with overall management and financial responsibility for the design, configuration, and deployment of PARS II

PARS II Integrated Project Team (IPT) – a multi functional group that supports the PARS II Project Manager and is involved in resolving issues and making recommendations

DOE Programs – the DOE organizations that will participate in the CPP Test Phase, design and configuration activities, and the transition and deployment of PARS II

DOE Federal Project Directors (FPD) – the individuals who are the primary point of contact for working with the DOE contractors

DOE Contractors – the organizations who will work with EES and Dekker to provide project performance data

EES – the system integrator with overall management and financial responsibility for the implementation of the solution requested by OECM

Dekker – the software vendor with responsibility for the design and configuration of its software suite to meet OECM's requirements and concept of operations

The roles and responsibilities of the primary project team members are described in Table 8.

Table 8 PARS II Project Roles and Responsibilities				
Role	Name	Org	Responsibility	
System Owner/ Technical Monitor	John Makepeace	MA-50	 Overall system, data and financial responsibility and accountability Determines whether changes fall within scope of the PARS Statement of Work Provides direction, support and guidance to the project team Approves changes to PARS 	
EES Project Manager	Kai Mong	EES	 Project Management AHE Setup/Coordination PARS II Portal Technical Design Field Technical Support 	

Table 8 PARS II Project Roles and Responsibilities				
Role	Name	Org	Responsibility	
EES Program Manager	Larry Flanigan	EES	 Support and guidance to the Project Manager and team Project staffing and funding Resolves and facilitates communications between system owner and support group 	
EES Associate VP SDE	Dennis McDermitt	EES	 Support and guidance to the Program Manager, Project Manager and team Project staffing and funding Issue resolution 	
System Analyst	Norm Ayers	EES	 Concept of Operations Field CPP Test Lead Software Design and Configuration Oversight Training Transition Support 	
System Analyst	Steve Baker	EES	Certification and AccreditationHelp Desk LeadTesting	
System Analyst	(TBD)	EES	 Requirements Management Testing Lead Data Migration Configuration Management Configuration Parameters Document 	
Quality Assurance	Ruth Ann Smith	EES	Guidance and assistance on processEES Quality Reviews	
Sr. Principal Information Engineer	Judith Bernsen	PMC	 Project Planning Transition Planning and Support Access Control Manual User Guide 	
Dekker Implementation Team Engagement Director	Simon Dekker	Dekker	 Responsible for overall system training and consulting for each engagement Provide methodologies guidance Provide Dekker TRAKKER® implementation support resource Provide application and methodologies training resource Provide proceduralized system with training collateral 	
Dekker Lead Consultant	Greg Ward	Dekker	 Responsible for the day-to-day contact with the Customer's Core Implementation Team. Serve as Dekker Management Consultants, Accounts, and Process Engineers 	

PARS II Project Plan 16 Issue Date: 3/6/2009

	Table 8 PARS II Project Roles and Responsibilities				
Role	Name	Org	Responsibility		
Dekker Software Engineer	Andrew Polis, and Others	Dekker	 Software design Liaison between Dekker's Development Staff, Lead Consultant, and the Customer's Core Implementation Team. Serve as Dekker Programmers, Database Administrators, System Engineers 		
Dekker Application Consultant	Mark Landry	Dekker	 Training Core Implementation Team Supports user training Liaison between the Lead Consultant and Dekker's Customer Support Staff. Dekker user and technical documentation 		

6 RISK

Risk Management is implemented throughout the lifetime of the PARS II project. The project follows EES' risk management policy and procedures.

An initial risk register is presented is Table 9. Risks are assigned to members of the PARS II team. The risk owner is responsible for monitoring the risk, reporting its status, and escalating it to management when necessary. Identified risks and issues are reviewed and documented on a monthly basis.

	Table 9 PARS II Risk Register					
	Risk	Mitigation	Probability	Impact		
1	Dekker LTD software cannot fully fulfill OECM and OCIO requirements for PARS II (WBS 1.5)	 Create a Concept of Operations and set up a test environment as soon as possible so that Dekker can assess its ability to meet DOE's detailed requirements Review DOE's security requirements with Dekker and write the PARS II Security Plan 	Medium	High		
4	AHE does not have the capacity to host PARS II. Currently AHE cannot provide other instances of PARS II or a Citrix environment to house the Dekker thick clients in the timeframe required by PARS II (WBS 1.0)	Give AHE the PARS II requirements for servers and disk space in the Storage Area Network (SAN) with sufficient lead time for them to meet them	Low	Medium		
5	The DOE wide-area network (DOENet) infrastructure at the field sites does not provide satisfactory performance (WBS 1.0)	 Have field site users test in the early stages of the project to discover any serious performance issues Develop workarounds such as putting large upload files on a CD and mailing to DOE HQ Request that the OCIO identify bottlenecks and develop viable alternatives or solution 	Medium	High		

	Table 9 PARS II Risk Register					
	Risk	Mitigation	Probability	Impact		
7	Some field site contractors may not be able to produce the project data as required by OECM (especially schedule data) (WBS 1.0)	 Only require a minimum set of data (e.g., do not require schedule data) Provide software and/or consulting services to assist the contractor Make the data a requirement for future awards 	Medium	High		
8	DAA approval for PARS II takes more than two months to receive and delays the deployment of PARS II (WBS 1.0)	 Complete C&A documents as soon as possible and forward to the CFO Cyber Security team for review as each is completed OECM and the DAAR escalate the need for certification if approval is not received within two months of DAAR approval 	Low	High		
9	PARS II cannot get permission from the sites to use DOENet (WBS 1.0)	 Develop workarounds such as putting large upload files on a CD and mailing to DOE HQ Develop alternatives to using DOENet 	Low	Medium		
11	The aggressive schedule for configuring the software cannot be met	Adhere to a standard bi- weekly meeting schedule to review and discuss software as it is being developed Obtain quick decisions from OECM	Medium	Medium		
12	PARS II software cannot be supported and maintained once Dekker completes software configuration	 Provide technical training to the EES support staff on the Dekker software Maintain a contract with Dekker to modify the software during system testing and Acceptance testing Involve the EES support staff in the configuration 	Low	Low		

	Table 9 PARS II Risk Register					
	Risk	Mitigation	Probability	Impact		
13	Customizations to PMIS by Dekker could result in a software version unique to DOE, thereby limiting DOE's ability to upgrade to new PMIS releases and committing DOE to Dekker resources for required changes.	EES communicates to Dekker that unique DOE customizations cannot be made to PMIS	Low	High		

7 QUALITY

The project follows EES' policy and procedure for quality assurance. The PARS II Project Manager ensures that products are developed in accordance with EES policies, procedures, and templates. The EES Quality Assurance (QA) Manager conducts independent audits to verify that EES quality procedures are followed. The audit is also used to assess compliance with the Capability Maturity Model Integration (CMMI) Level III Methodologies as required by DOE.

Peer reviews are planned and documented on the following documents.

- Concept of Operations
- Security Plan
- Configuration Management Plan
- COOP
- Transition/Deployment Plan
- Communications Plan
- Training Plan
- Data Migration Plan
- System Test Plan
- User Guide
- Training Materials
- Project Plan

EES also conducts independent testing of the Dekker configured software to ensure that it meets OECM requirements and concept of operations.

8 COMMUNICATIONS

The deployment of PARS II will require frequent communications to a large number of stakeholders. These communications will be addressed in the PARS II Communications Plan.

Regular communications regarding PARS II project status are identified in Table 10.

Table 10 PARS II Communications					
Ву	То	Frequency	Medium	Content	
PARS II Team Members	PARS II System Owner	Weekly	WebEx Web Conf	 Agenda on PARS II Project activities Review of action items System Owner comments 	
EES Team Member	EES Project Manager	Weekly	• Email	Weekly accomplishmentsWork in ProgressOpen Issues	
Dekker	EES Project Manager	Twice a Month	Status Report	Weekly accomplishmentsActual hours for weekWork to Start or in ProgressQuestions and Concerns	
EES Project Manager	PARS II System Owner	Weekly	Status Report	 Weekly accomplishments Work in progress Actions to be completed by next week Deliverables Open Issues 	
EES Project Manager	PARS II System Owner	Monthly	Monthly Activity Report	 Completed Tasks for the month Work in Progress Future Activities Stuffing Open Issues Deliverables Risk 	

9 PROCUREMENT

A core component of the solution to the PARS II project is the Dekker PMIS suite of Project Management Information System. Accordingly, EES has entered into a contract with Dekker to procure consulting services in addition to software licenses for the Dekker PMIS suite.

A team of EES and Dekker staff is working together to implement this PMIS suite within the DOE Application Hosting Environment (AHE), the IT infrastructure environment for DOE Headquarter maintained by the CIO Office. In the early stage of this effort, EES manages the technical work the Dekker development team provides, and makes sure they can be implemented on the DOE network in accordance with applicable DOE Guidance. In the later stage, the Dekker team ramps down with knowledge transferred to EES Support.

Dekker is providing with EES with costs by at the WBS Level 2. Costs are broken out by labor category and other direct costs. Dekker submits weekly status reports on accomplishments and actual labor hours. Monthly they submit an invoice for the costs.

10 PROJECT TRACKING AND CONTROL

- EES tracks completion of tasks and deliverables to the fourth level of the WBS for all EES work and to the third level of the Dekker WBS for all Dekker work. Actual hours are collected from all team members on a weekly basis. Actual hours, percent complete, and estimated time to complete are tracked using Microsoft Project 2003 software.
- EES meets weekly with the OECM client to discuss project status and delivers a weekly status report.
- EES prepares a monthly status report that addresses actual scope, cost and schedule against the planned baseline. If necessary, Corrective Action Plans (CAP) will be prepared to identify actions necessary to bring the project back into line with the baseline.
- Schedule and cost are monitored by the EES Program Manager.
- The PARS II project baseline will be reviewed and assessed at three distinct milestones. If the information and experience to-date reveals that the scope, cost and/or schedule of future phases of the project should be revised, EES will propose a revised plan to OECM.
- PARS II action items are recorded, tracked and reviewed on a weekly basis. Action items are maintained in a Microsoft Excel spreadsheet. Information maintained on the action items includes date opened, date due, date closed, priority, responsible party, and status.

11 ASSUMPTIONS AND CONSTRAINTS

11.1 Assumptions

Assumptions that were used in developing V1.0 of the PARS II project plan are listed in Table 11. At each reassessment of the project plan, the assumptions will be reviewed to determine if they still are valid.

	Table 11
	PARS II Assumptions
	Assumption
1	The Dekker PMIS software suite can be enhanced and configured to provide all the OECM requirements for PARS II.
2	The Dekker PMIS software security module can meet DOE's security requirements.
3	AHE has the capacity to provide all the required server elements to host PARS II at DOE HQ, and with no performance issues.
4	PARS II will be granted Authority to Operate (ATO) by the Organizational Designated Approving Authority (DAA) within two months following approval by the DAA Representative (DAAR).
5	PARS II will not need to get ATO for the OA module once it has received it for the CPP module.
6	OECM has sufficient resources to define requirements, provide guidance, and validate/approve project deliverables in a timely manner.
7	OECM will be able to provide adequate funding to support the course of the PARS II project.
8	Field Site Contractors will be able to provide Contractor Performance Data file in a format specified by the PARS II application.
9	The primary data source for APRS II is ART; a secondary source is PARS, which has some administrative data that needs to be converted.
10	No CBT training is planned for FY2009; training will consist of classroom, Webinar, and on-the-job training.
11	The project cost estimate is based on the assumption that PARS II will use the Documentum software currently owned by DOE; there is an annual cost of \$36K per cabinet and \$80 per named user license and a one-time fee for setup.

	Table 11 PARS II Assumptions			
	Assumption			
Support for an interim out-of-the-box Dekker solution for EM sites is provided by a separate sub-project and is not included in the scope of the plan for the PARS II solution.				

11.2 Constraints

Constraints that affect the implementation and deployment of PARS II are listed in Table 12. At each reassessment of the project plan, the constraints will be reviewed to determine if they still are valid.

	Table 12 PARS II Constraints					
	Constraint					
1	Team members work in different geographic locations and in different time zones making it difficult to establish a common working environment. The team needs to use WebEX web conference technology to collaborate on a weekly basis in addition to phone conferences.					
2	Meetings, demonstrations and presentations where Dekker personnel will be present onsite should be made at least two weeks in advance so that travel costs can be minimized.					
3	The Dekker development team has no access to the DOE network making the development and deployment of the application more difficult.					
4	The team has little control of the availabilities of certain personnel outside of the core team and it may impede the progress of the project. Obtaining field site visit authorization is such an example.					
5	The PARS II application must be certified and accredited and given Authority to Operate (ATO) in accordance with DOE cyber security requirements.					
6	PARS II must follow the policies and procedures of the DOE Headquarter Application Hosting Environment (AHE).					

12 APPROVALS

12.1 Management Approval

This section describes the internal management approval process for the Project Plan.

This Project Plan is to be reviewed by all PARS II team members in order to obtain concurrence. It will then be reviewed by the EES Program Manager and the Associate VP SDE for approval.

12.2 Client Approval

This section describes the client approval process for the Project Plan.

After the internal approval process, this Project Plan is to be reviewed by the PARS II system owner and the OECM management for approval.

Once the Project Plan is approved, EES will provide the PARS II system owner a formal Client Acceptance Letter to accept the product as a deliverable required by the DOE Statement of Work to EES.

13 RECORDS

All PARS II project documentations, deliverables, conference records and contract agreements are stored in an EES resource available to the PARS II system owner.

14 REFERENCES

- Concept of Operation for PARS II Draft Version 1.0, October 31, 2008
- Proposed Data Elements for PARS II, Version 1.7, November 3, 2008
- PARS II Project Plan for Field Site Visit Version 1.0, November 26, 2008
- United States Department of Energy Order 413.3A, July 28, 2006
- United States Department of Energy Manual 413.3-1, March 31, 2003
- United States Department of Energy Guide 413.3-10, "Earned Value Management System", May 6, 2008
- OECM "ART Database", developed by OECM (Brian Kong, OECM)
- National Defense Industrial Association Program Management Systems Committee "Earned Value Management Systems Intent Guide" (for ANSI/EIA 748-A), November 2006 Edition.
- IPABS-IS and PARS System Integration, Concept of Operation Plan, March 19, 2004
- Project Assessment and Reporting System (PARS) User Manual version 3.5, March 3005
- PARS Data Input Requirements, March 23, 2006 (PPC)
- Gather Requirement & Conduct Market Research for the Project Assessment Report System (PARS), September 2006
- Function Requirements Document for PARS (Draft), June 20, 2007
- System Architecture Schematic (Dekker Ltd.)
- Dekker TRAKKER and Dekker iPursuit Technology Recommendations (Dekker Ltd.)
- General Implementation Plan (Dekker Ltd.)
- ROM For DOE (EES), Dekker, Ltd. August 18, 2008
- Technical Information, Dekker, Ltd. August 26, 2008
- Project Plan Template (EES)
- Software Engineering Institute's CMMI[®] for Development (CMMI-DEV), Version 1.2 2006

APPENDIX A - PARS II WORK BREAKDOWN STRUCTURE

	PARS II Work Breakdown Structure			
WBS#	WBS Element	Description		
1120 !!		The system, documentation, and services (training		
		and help desk, etc.) requested by OECM and the		
		project management and services needed to support		
1	PARS II System	the construction of the solution.		
		CLIN 1 work completed prior to FY2008, including		
4.0	PARS II Software/Vendor	PARS II requirements and evaluation and selection of		
1.0	Selection	a COTS product and vendor.		
		Activities and documents related to managing the PARS II project until the system is fully operational.		
		Including project planning, execution, monitoring, and		
1.1	Project Management	reporting.		
	l reject management	Activities associated with staffing and initial planning		
1.1.1	Project Startup	of work following receipt of DOE work order.		
1.1.2	Project Planning	The plan for implementing the PARS II system		
		The initial plan, based upon work accomplished and		
		knowledge gained at the end of the Requirements		
1.1.2.1	Project Plan V1.0	and Concept of Operations.		
4 4 0 0	Desired Discover	Review and revise project plan upon completion of		
1.1.2.2	Project Plan V1.1	the CPP Test Phase		
1.1.2.3	Project Plan V1.2	Review and revise project plan upon the completion of transition planning		
1.1.2.3	Froject Flan V1.2	Ongoing management, control, and reporting of		
		project activities including assigning and reviewing		
		work, assessing and communicating status, risk		
		management, and acquisition management (procure		
1.1.3	Execution & Control	software/services and manage subcontract).		
		EES quality and schedule/cost control, task		
l	Program Management	management, financial management, and project		
1.1.4	Support	oversight.		
		The description of how the PARS II system is		
		expected to operate in its intended environment. This document is non-technical in nature and is presented		
	PARS II Concept of	from the viewpoints of the various stakeholders.		
1.2	Operations	Includes work on the data dictionary.		
		The initial version of the Concept of Operations.		
		Includes writing the draft version, peer reviews,		
		reviews with customer, and modifications based on		
	PARS II Concept of	feedback from customer reviews. Note: Includes		
1.2.1	Operations V1.0	work on Data Dictionary V1.0.		
		Review and revise the Concept of Operations and		
	DARS II Consent of	Data Dictionary during the software configuration.		
1.2.2	PARS II Concept of Operations V1.1	Includes editing, peer review, review with customer, and modifications.		
1.4.4	Operations v 1.1	Review and revise the Data Dictionary. Includes		
	PARS II Data Dictionary	editing, input from Dekker, peer review, review with		
1.2.4	V1.1	customer, and modifications.		

PARS II Work Breakdown Structure		
WBS#	WBS Element	Description
_		The user requirements that the PARS II products
		must meet in order to be accepted. The majority of
		the requirements have been identified, documented
		and approved at this point. However, there will be
		ongoing requirements management for the remainder
1.3	PARS II Requirements	of the project life.
404	Requirements	Ongoing review and maintenance of the PARS II
1.3.1	Management	requirements during configuration of the software. The deployment of Dekker thick client software to field
		sites for purposes of determining its viability and
		understanding field readiness. The initial phase is to
		deploy at two to four EM sites. A second phase is
		planned to deploy the COTS software to two to four
1.4	CPP Test Phase	more sites. These sites would include non-EM sites.
1.4.1	Dekker PMIS Purchase	Purchase of Dekker PMIS software
		Prepare and deliver a plan identifying the tasks,
	Publish Project Plan for	responsibilities, cost and schedule for the CPP Test
1.4.2	CPP Test Phase Module	Phase.
	Provide Informal Help	
4.40	Desk Support for CPP	Assist test sites as they are using Dekker tools and
1.4.3	Sites	extracting data from their systems.
	Implement CDD Test	Conduct discovery and configure Dekker thick client software at sites. Work with sites to obtain contract
1.4.4	Implement CPP Test Phase at up to 3 Sites	data.
1.4.4.1	Prepare for Site Visits	Planning and preparing for site visits.
	Conduct Discovery &	Working with Site 1 to obtain data, including installing
1.4.4.2	Configuration at Site 1	and configuring Dekker thick client software.
	Conduct Discovery &	Working with Site 2 to obtain data, including installing
1.4.4.3	Configuration at Site 2	and configuring Dekker thick client software.
	Conduct Briefing for	Brief OECM and EM on the findings and status of the
1.4.4.4	OECM & EM	work at the first two field sites.
	Conduct Discovery &	Working with Site 3 to obtain data, including installing
1.4.4.5	Configuration at Site 3	and configuring Dekker thick client software.
4.45	Configure CPP Module	Configure the Dekker software for demonstrating the
1.4.5	for Test Phase	CPP module.
	Demonstrate CPP Test to EM & OECM	Demonstrate the initial configuration of the CPP module to management and present findings and
1.4.6	Management	results of the work at the four EM sites.
1.4.0	Wanagement	The configuration of the Dekker software suite to
		meet DOE's requirements as discussed in the PARS
	PARS II Software	II Requirements Document and the PARS II Concept
1.5	Configuration	of Operations.
		Includes configuring the CPP module for the upload of
	Configure CPP Module	schedule and EVM data, risk logs, and management
1.5.1	V1.0	reserve and for variance analysis.
		Includes configuring the OA module for use by
		Federal staff to manage and review critical decisions,
		key performance parameters, contingencies, project
450	Develop the CA Market	attributes, and contacts. Also includes setting up
1.5.2	Develop the OA Module	dashboards and reports.

	PARS II Work Breakdown Structure				
WBS#	WBS Element	Description			
		Includes configuring menus and security, publishing			
	PARS II Systems	reports from iPortfolio, and setting up document			
1.5.3	Configuration	management. Meetings to review software during design and			
4.5.4	DOE EES/Dekker	Meetings to review software during design and configuration.			
1.5.4	Reviews and Briefings				
1 5 5	Integrated Quality and	Ongoing quality assurance and testing by Dekker of its software configuration.			
1.5.5	Testing	Changes to the configured software resulting from the			
	Software Corrective	EES independent testing and user acceptance			
1.5.6	Action	testing.			
1.0.0	Dekker Software	Providing insight on requirements and design to			
1.5.7	Integration and Oversight	software engineers and ensuring objectives are met			
		A portal or web page that will provide news and links			
		for users to register for an account and log in to PARS			
1.6	PARS II "Portal"	II.			
		Includes research on technology available at DOE,			
	PARS II "Portal"	definition of requirements, development of a prototype			
1.6.1	Prototype	website, and demonstration to OECM.			
4.0.0	DADC II	Revise prototype based on feedback from OECM			
1.6.2	PARS II "Portal" V1.0	demonstration.			
		Independent systems testing and quality assurance by EES of Dekker configured software. Focuses on			
		verifying that the software meets the functional and			
		technical requirements and the concept of operations.			
		Includes developing a test plan, conducting the			
	EES Software Quality	testing, preparing a test evaluation summary and test			
1.7	Assurance	results report, and tracking defects.			
		Provides the information necessary to plan and			
		control the test effort for the PARS II system. It			
		identifies the items to be tested, and identifies the			
		environmental, staffing, and other resources required			
		to test. It also identifies the criteria for categorizing			
	DADO II O atau Taut	defects (e.g., low, medium, high). Includes writing			
171	PARS II System Test	draft document and test cases, peer review, and			
1.7.1	Plan	modifications to the test plan.			
		Includes testing of the system, documenting and tracking software defects, determining how to handle			
		defects, and preparing a report on the test results.			
1.7.2	PARS II System Testing	Also includes retesting.			
	PARS II V1.0 System	V			
1.7.2.1	Testing	System testing of PARS II V1.0 - CPP module			
	PARS II V1.1 System				
1.7.2.2	Testing	System testing of PARS II V1.1 - OA module			
		Working with Dekker to ensure that the software is			
1.7.3	EES Software Integration				
4.0	PARS II Technical and	Documentation for the PARS II system required to			
1.8	User Documentation	operate, maintain and use the system.			
		Role-based manual that instructs the FPD, program			
		and OECM analysts, and DOE executives in the use of the system. Also provides instructions to			
1.8.1	PARS II User Guide	contractors on the project file upload process.			
1.0.1	I AND II USEI Guide	contractors on the project file upload process.			

	PARS II W	ork Breakdown Structure		
WBS#	WBS Element	Description		
	Dekker Role-Based User			
1.8.1.1	Guide	Role-based guide provided by Dekker to EES.		
		Updates to the Dekker Role-Based User Guide, such		
		as help desk information, url to access application,		
		and Doe-specific information. May include additional		
4040	DADO II I I a a a Contata VA O	short user materials such as a one page reference		
1.8.1.2	PARS II User Guide V1.0	sheet.		
		Documents how the DOE implementation of the Dekker software suite was tailored to DOE's specific		
		requirements. Specific information on how various		
		configurations are developed or captured in the		
		software is documented in the Dekker technical		
	PARS II Configuration	documents. ~25 pp plus additional supporting		
1.8.2	Parameters Document	material.		
		Provides a technical specification of PARS II including		
		(1) the set of environments (development, test,		
		training, and production) that will be built and		
		maintained (2) the network configuration in which		
		PARS II will be deployed (3) the design of PARS II		
		interfaces with other systems and (4) how the design meets key PARS non-functional requirements for		
		performance, availability, reliability, scalability,		
		support and maintainability, and security		
		requirements. The document will be delivered at		
		system deployment as a description of the "as built"		
		system to aid in system maintenance. The document		
		audience includes AHE technical staff, the system		
		integrators developing and maintaining the system,		
	PARS II Technical Design	Security evaluators, and the parties who will assess		
1.8.3	Document	the architecture and design. ~ 50-75 pp.		
		Documents procedures for requesting and approving user accounts, removing access to PARS II, handling		
		lost/compromised passwords, managing user profiles,		
		and reviewing access authorizations periodically.		
		Includes client discussions, writing the draft version,		
		peer reviews, reviews with customer, and		
	PARS II Access Control	modifications based on feedback from customer		
1.8.4	Policies and Procedures	reviews. ~50-75 pp.		
		Documents and activities related to obtaining		
		Authority to Operate (ATO). Also includes		
1.0	CS A Contitionation	participating in testing and reviews of PARS II with the		
1.9	C&A Certification	CFO Cyber Security Team.		
		Includes writing draft document, peer review, reviews with customer and security assessors, and		
		modifications based on feedback. Includes C&A		
1.9.1	PARS II Security Plan	planning, system categorization, and draft MOU.		
	The country is an	Includes writing draft document, peer review, reviews		
		with customer and security assessors, and		
1.9.2	PARS II COOP/DR	modifications based on feedback.		
		Includes writing draft document, peer review, reviews		
	PARS II Configuration	with customer and security assessors, and		
1.9.3	Management Plan	modifications based on feedback.		

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	PARS II W	ork Breakdown Structure		
WBS#	WBS Element	Description		
		Includes creating ST&E scripts, peer review, review		
1.9.4	PARS II ST&E Scripts	with assessors and modifications based on feedback.		
		Participation by PARS II team members in the		
		Security Risk Assessment and ST&E testing and		
	PARS II Security Reviews	responding to questions from the CFO Cyber Security		
1.9.5	and Testing	Team.		
		Modifications to PARS II C&A documentation		
1.9.6	C&A Modifications	following review by the CFO Cyber Security Team.		
	Independent Security	Testing of PARS II security controls by the CFO		
1.9.9	Testing	Cyber Security Team.		
1.9.6	PARS II DAAR Approval	Approval received from DAAR for PARS II.		
4.0.7	PARS II C&A	According to the second part of the part o		
1.9.7	Accreditation	Approval received from DAA for PARS II.		
		Planning documents that focus on the requirements		
	PARS II Transition	for deploying the PARS II system. Includes deployment/transition plan, communications plan,		
1.10	Planning	training plan, and data migration plan.		
1.10	Triallining	Describes the strategy for deploying the PARS II		
		Contract Project Performance module to the DOE		
		sites and for transitioning from PARS I to PARS II. It		
		identifies the deployment team and its members' roles		
		and responsibilities, describes the deployment		
		milestones and schedule, discusses user acceptance		
		testing, and addresses support that will be required		
		during the deployment. It requires many discussions		
		with the customer over a period of time and should be		
		developed iteratively. It includes writing draft		
		document, peer review, reviews with customer, and		
1.10.1	PARS II Deployment Plan	modifications based on feedback.		
		Document describes the strategy for communicating		
		with PARS II stakeholders and users, including		
		identifying the types of information to communicate and the methods of communication. Should be		
		developed in parallel with the PARS II Deployment		
		Plan. Includes writing draft document, peer review,		
	PARS II Communications	discussions with customer, customer reviews, and		
1.10.2	Plan	modifications based on feedback.		
	- 45 -	Document describes the strategy for providing initial		
		and ongoing training to PARS II users, including		
		required resources and methods. Includes writing		
		draft document, peer review, discussions with		
		customer, customer reviews, and modifications based		
1.10.3	PARS II Training Plan	on feedback.		
		Includes analyzing data, writing draft document, peer		
	PARS II Data Migration	review, discussions with customer, customer reviews,		
1.10.4	Plan	and modifications based on feedback.		

	PARS II W	ork Breakdown Structure			
WBS#	WBS Element	Description			
	n zo zionioni	Development of the documents and services needed to support the installation and deployment of the			
		PARS II system. The transition planning documents have defined the requirements for these deliverables			
		which include training materials, set up of the AHE			
		hosting environments, establishment of help desk support, data migration scripts, and providing support			
		as needed to respond to information requests, gather user account information, and demonstrate the			
1.11	Transition Preparation	Software.			
		Set up of training environment for PARS II. Includes installation and set up of any necessary hardware and			
		system software, installation and configuration of			
		PARS II software components, LDAP, and network connectivity, providing specifications to AHE for			
		Dekker/PARS II software, and coordination with AHE			
1.11.1	AHE TRAIN Environment	and Dekker.			
1.11.2	AHE PROD Environment	Set up of production environment for PARS II.			
		Collect information needed to assist sites with accessing PARS II. Develop survey, review with			
1.11.3	Technical Site Surveys	customer, distribute, follow-up.			
		Analyze PARS I/ART data and PARS II data			
	ART and PARS I Data	structure, design, create and test scripts for data			
1.11.4	Conversion Scripts	migration.			
		Presentations, instructor materials, training manuals,			
		training data and exercises, and training accounts			
1.11.5	Training Materials & Data	needed to conduct training. Training will be role- based. Also includes logistics such as scheduling.			
	Training Materials & Bata	Training materials and data for the CPP module.			
		Includes developing draft materials, peer review, test			
	PARS II Training	training session, and modification of training			
1.11.5.1	Materials & Data V1.0	materials.			
		Training materials and data for the OA module. Includes developing draft materials, peer review, test			
	PARS II Training	training session, and modification of training			
1.11.5.2	Materials & Data V1.1	materials.			
		Includes effort to write text, develop screenshots and			
		graphics, record narrative, test, and modify. Assumes web-delivery and the cost of software are not included			
1.11.5.3	PARS II Web Training	in the plan.			
4.44.0	DADO II II II D. II	Establishment of a help desk for Tier 1 help desk			
1.11.6	PARS II Help Desk	support. Includes defining how to configure help desk			
		software, developing help desk procedures for			
		escalation of calls, etc., and training help desk staff.			
4 4 4 0 4	DADO IIII. D. J. O. :	Includes meetings with customer and CFO help desk			
1.11.6.1	PARS II Help Desk Setup	staff.			
1.11.6.2	PARS II Help Desk	Operation of PARS II Help Desk through the deployment in 2009.			
		Planning for and supporting PARS II stakeholders in			
	PARS II Acceptance	their acceptance testing. Also includes deciding on			
1.11.7	Testing	defects and presenting findings to OECM.			

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	PARS II W	/ork Breakdown Structure			
WBS#	WBS Element	Description			
		Acceptance testing for V1.0 - CPP module - with 4			
	PARS II V1.0 Acceptance	sites and HQ programs and OECM. OECM makes			
1.11.7.1	Testing	go-live decision following presentation of test findings.			
		Acceptance testing for V1.1 - OA module - with HQ			
	PARS II V1.1 Acceptance	programs and OECM. OECM makes go-live decision			
1.11.7.2	Testing	following presentation of test findings. Major milestones representing the readiness to go-			
1 11 0	PARS II Transition	Major milestones representing the readiness to golive with PARS II V1.0 and V1.1			
1.11.8	Readiness Milestones PARS II V1.0 Ready to	PARS II - CPP module – ready for test of IOC			
1.11.8.1	Go Live Milestone	capability.			
1.11.0.1	PARS II V1.1 Ready to	PARS II – OA module – ready for test of IOC			
1.11.8.2	Go Live Milestone	capability.			
1.11.0.2	Of Live Willestone	Activities related to supporting the project team as it			
		develops and deploys the system, documentation,			
		training, and services. Includes training of the project			
		team on the Dekker software, setting up the			
		development and test AHE environments,			
1.12	PARS II Project Support	configuration management, and quality assurance.			
		Training in technical aspects of the Dekker software			
	Project Team Technical				
1.12.1	Training	them for assuming responsibility for maintenance			
	Configuration	Ongoing configuration management of PARS II			
	Management & Change	software and documentation and changes requested			
1.12.2	Control	to software and documents			
		Peer reviews of project deliverables - software,			
1.12.3	Quality Assurance	documents, and services			
1.12.4	AHE Test Environment	Set up of the test environment for PARS II.			
1.12.5	AHE DEV Environment	Set up of development environment for PARS II.			
		Activities supporting the initial test run of the software,			
		documentation, training, and processes with selected			
	PARS II 2009	sites/projects in the last three months of Calendar			
1.13	Deployment	Year (CY) 2009.			
4 40 4	PARS II V1.0 Data				
1.13.1	Migration	Assume no data migration for CPP			
4 40 0	DADC II.)/4 O Training	Conducting Web and classroom training for CPP			
1.13.2	PARS II V1.0 Training	users.			
1.13.3	PARS II V1.1 Data	Migrating data from DADS 1/ADT to DADS II			
1.13.3	Migration	Migrating data from PARS 1/ART to PARS II Conducting classroom training for OA. Assume 4 1-			
1.13.4	PARS II V1.1 Training	day classes.			
1.13.4	I AND II VI.I Hallillig	Setting up user accounts, managing training,			
	PARS II Deployment	responding to customer/user requests as software is			
1.13.5	Support	being deployed, etc.			
1.10.0	Сарроп	Activities supporting the operations and maintenance			
	PARS II 2010 O&M and	of PARS II. Additional projects will be added once the			
1.14	Deployment	contractor can provide the data.			
	PARS II 2010 Ongoing	Continuing training (primarily web-based), setting up			
1.14.1	Deployment	user accounts, and adding projects.			
		Performing system administration tasks, making			
	PARS II 2010	software changes, and applying patches/upgrades as			
1.14.2	Maintenance	needed.			
		1			

PARS II Work Breakdown Structure			
WBS # WBS Element Description			
1.14.3	PARS II Help Desk	Operation of the PARS II Help Desk.	
		Ad hoc support focused on disseminating information about PARS II, including briefings, software demonstrations, Integrated Project Team (IPT) support, portal content, and preparing/delivering	
1.15	Transition Support	communications	

Appendix B – PARS II Schedule

ID	WBS	Name	Duration	Start	Finish
1	1	PARS II System	999 days	Wed 11/1/06	Thu 9/30/10
2	1.0	PARS II Software/Vendor Selection	248 days	Wed 11/1/06	Fri 10/12/07
3	1.0.1	Requirements Analysis	151 days	Wed 11/1/06	Wed 5/30/07
4	1.0.2	Evaluated Potential Software Vendors	182 days	Thu 2/1/07	Fri 10/12/07
5	1.0.2.1	Prepared Moch Screens, Reports, and Workflows for Vendor Demonstrations and Selection Criteria	8 days	Wed 6/20/07	Fri 6/29/07
6	1.0.2.2	Evaluated 5 software vendors against Design Scenarios	107 days	Thu 2/1/07	Fri 6/29/07
7	1.0.2.2.1	Evaluated Dekker Software	44 days	Tue 5/1/07	Fri 6/29/07
8	1.0.2.2.2	Evaluated Hyperion Software	3 days	Thu 2/1/07	Mon 2/5/07
9	1.0.2.2.3	Evaluated Cognos Software	1 day	Thu 3/1/07	Thu 3/1/07
10	1.0.2.2.4	Evaluated SAS Software	1 day	Thu 3/15/07	Thu 3/15/07
11	1.0.2.2.5	Evaluated Primavera Software	12 days	Thu 3/15/07	Fri 3/30/07
12	1.0.2.3	Performed Final Selection	21 days	Fri 6/1/07	Fri 6/29/07
13	1.0.2.3.1	Prepared Demonstrations for Vendors to demonstrate software for stakeholders	21 days	Fri 6/1/07	Fri 6/29/07
14	1.0.2.3.2	Prepared Stakeholder evaluation forms for rating vendors' software	2 days	Thu 6/28/07	Fri 6/29/07
15	1.0.2.4	Prepare Final Proposal	10 days	Mon 10/1/07	Fri 10/12/07
16	1.1	Project Management	364 days	Fri 8/1/08	Tue 1/19/10
17	1.1.1	Project Startup	66 days	Fri 8/1/08	Fri 10/31/08
18	1.1.2	Project Planning	134 days	Mon 11/10/08	Fri 5/29/09
19	1.1.2.1	Project Plan V1.0	43 days	Mon 11/10/08	Fri 1/16/09
20	1.1.2.2	Project Plan V1.1	20.25 days	Mon 2/16/09	Tue 3/17/09
21	1.1.2.3	Project Plan V1.2	20 days	Fri 5/1/09	Fri 5/29/09
22	1.1.3	Execution & Control	273 days	Tue 9/16/08	Thu 12/31/09
23	1.1.4	Program Management Support	283 days	Mon 11/24/08	Tue 1/19/10

ID	WBS	Name	Duration	Start	Finish
24	1.2	PARS II Concept of Operations	156 days	Mon 9/22/08	Mon 5/11/09
25	1.2.1	PARS II Concept of Operations V1.0	48 days	Mon 9/22/08	Wed 11/26/08
26	1.2.2	PARS II Concept of Operations V1.1	88 days	Mon 1/5/09	Mon 5/11/09
27	1.2.4	PARS II Data Dictionary V1.1	13 days	Mon 12/29/08	Thu 1/15/09
28	1.3	PARS II Requirements	248 days	Mon 1/5/09	Wed 12/30/09
29	1.3.1	Requirements Management	248 days	Mon 1/5/09	Wed 12/30/09
30	1.4	CPP Test Phase	98 days	Wed 10/1/08	Fri 2/27/09
31	1.4.1	Dekker PMIS Purchase	28800 mins	Wed 10/1/08	Fri 2/27/09
32	1.4.2	Publish Project Plan for CPP 'Test Phase' Module	18 days	Mon 10/20/08	Wed 11/26/08
33	1.4.3	Provide Informal Help Desk Support for CPP Sites	57 days	Mon 12/1/08	Fri 2/27/09
34	1.4.4	Implement CPP Test Phase at Three EM Sites	42.75 days	Mon 12/1/08	Fri 2/6/09
35	1.4.4.1	Prepare for Site Visits (Mobilization)	5 days	Mon 12/1/08	Fri 12/5/08
36	1.4.4.2	Conduct Discovery & Configuration at Site 1 (WTP)	2.5 days	Mon 12/8/08	Wed 12/10/08
37	1.4.4.2.1	Conduct Discovery at Site 1- (WTP)	2 days	Mon 12/8/08	Tue 12/9/08
38	1.4.4.2.2	Perform Configuration at Site 1- (WTP)	1.5 days	Tue 12/9/08	Wed 12/10/08
39	1.4.4.3	Conduct Discovery & Configuration at Site 2 (Idaho)	2.5 days	Wed 12/10/08	Fri 12/12/08
40	1.4.4.3.1	Conduct Discovery at Site 2 (Idaho)	1.5 days	Wed 12/10/08	Thu 12/11/08
41	1.4.4.3.2	Perform Configuration at Site 2 (Idaho)	1 day	Thu 12/11/08	Fri 12/12/08
42	1.4.4.4	Conduct CPP Briefing for Paul Bosco and Jack Surash	14 hrs	Thu 12/18/08	Fri 12/19/08
43	1.4.4.5	Conduct Discovery & Configuration - Site 3 (2 proj)	15 days	Wed 1/14/09	Fri 2/6/09
44	1.4.4.5.1	Conduct Discovery at Site 3	5 days	Wed 1/14/09	Fri 1/23/09
45	1.4.4.5.2	Collect data from Site 3	10 days	Fri 1/23/09	Fri 2/6/09
46	1.4.4.5.3	Continue to collect data from Sites 1&2	15 days	Wed 1/14/09	Fri 2/6/09
47	1.4.5	Configure CPP Module for Test Phase	12 days	Fri 1/30/09	Wed 2/18/09
48	1.4.6	Demonstrate CPP Test to EM &	2 days	Wed 2/18/09	Fri 2/20/09

ID	WBS	Name	Duration	Start	Finish
		OECM Management			
49	1.5	PARS II Software Configuration	260 days	Fri 12/12/08	Thu 12/31/09
50	1.5.1	Configure CPP Module Version 1.0	86 days	Fri 12/12/08	Wed 4/22/09
51	1.5.1.1	Project Management Data Upload	10 days	Fri 12/12/08	Wed 12/31/08
52	1.5.1.2	Project Management Schedule & EVM Input	62 days	Fri 1/2/09	Thu 4/2/09
53	1.5.1.3	Risk Log	14 days	Fri 4/3/09	Wed 4/22/09
54	1.5.1.4	Management Reserve	14 days	Wed 3/4/09	Mon 3/23/09
55	1.5.1.5	EV (Variance Analysis)	20 days	Tue 3/24/09	Mon 4/20/09
56	1.5.2	Develop the OA Module (Prototype & Version 1.0)	95 days	Fri 12/12/08	Tue 5/5/09
57	1.5.2.1	Project Attribute	10 days	Fri 12/12/08	Wed 12/31/08
58	1.5.2.2	Critical Decision	15 days	Mon 1/26/09	Fri 2/13/09
59	1.5.2.3	Schedule & EVM Analysis	28 days	Tue 2/17/09	Thu 3/26/09
60	1.5.2.4	Funding Profiles	42 days	Tue 2/17/09	Wed 4/15/09
61	1.5.2.5	Key Performance Parameters	14 days	Thu 4/16/09	Tue 5/5/09
62	1.5.2.6	Assessments & Narratives	14 days	Tue 2/17/09	Fri 3/6/09
63	1.5.2.7	Contingencies	14 days	Mon 3/9/09	Thu 3/26/09
64	1.5.2.8	Contacts & Certifications	14 days	Fri 1/2/09	Fri 1/23/09
65	1.5.3	Systems	38 days	Mon 12/15/08	Fri 2/13/09
66	1.5.3.1	Object Upload for MS Office Files	15 days	Mon 1/12/09	Tue 2/3/09
67	1.5.3.2	Publish Reports Directly From iPortifolio	23 days	Mon 1/12/09	Fri 2/13/09
68	1.5.3.3	Menu Overlay and Security	15 days	Mon 12/15/08	Fri 1/9/09
69	1.5.4	DOE EES/Dekker Review and Breifings	74 days	Thu 1/15/09	Fri 5/1/09
70	1.5.4.1	Meeting 1	1 day	Thu 1/15/09	Thu 1/15/09
71	1.5.4.2	Meeting 2	2 days	Mon 2/2/09	Thu 2/5/09
72	1.5.4.3	Meeting 3	1 day	Fri 2/20/09	Fri 2/20/09
73	1.5.4.4	Meeting 4	1 day	Fri 3/6/09	Fri 3/6/09
74	1.5.4.5	Meeting 5	1 day	Fri 3/20/09	Fri 3/20/09
75	1.5.4.6	Meeting 6	1 day	Fri 4/3/09	Fri 4/3/09

ID	WBS	Name	Duration	Start	Finish
76	1.5.4.7	Meeting 7	1 day	Fri 4/17/09	Fri 4/17/09
77	1.5.4.8	Meeting 8	1 day	Fri 5/1/09	Fri 5/1/09
78	1.5.5	Integrated Quality and Testing	96 days	Mon 12/15/08	Thu 5/7/09
79		PARS II SW Configuration Ready for Test	0 days	Fri 5/29/09	Fri 5/29/09
80	1.5.6	Software Corrective Action	126 days	Wed 7/1/09	Thu 12/31/09
81	1.5.7	Dekker Software Integration & Oversight	252 days	Fri 12/12/08	Fri 12/18/09
82	1.6	PARS II "Portal"	20 days	Mon 3/2/09	Fri 3/27/09
83	1.6.1	PARS II "Portal" Prototype	10 days	Mon 3/2/09	Fri 3/13/09
84	1.6.2	PARS II Portal V1.0	10 days	Mon 3/16/09	Fri 3/27/09
85	1.7	EES Software Quality Assurance	187 days	Mon 1/5/09	Wed 9/30/09
86	1.7.1	PARS II System Test Plan	20 days	Mon 5/18/09	Mon 6/15/09
87	1.7.2	PARS II System Testing	64 days	Wed 7/1/09	Wed 9/30/09
88	1.7.2.1	PARS II V1.0 System Testing	22 days	Wed 7/1/09	Fri 7/31/09
89	1.7.2.2	PARS II V1.1 System Testing	21 days	Tue 9/1/09	Wed 9/30/09
90	1.7.3	EES Software Integration	76 days	Mon 1/5/09	Thu 4/23/09
91	1.8	PARS II Technical and User Documentation	249 days	Mon 1/5/09	Thu 12/31/09
92	1.8.1	PARS II User Guide	135 days	Mon 1/5/09	Fri 7/17/09
93	1.8.1.1	Dekker Role Based User Guide	79 days	Mon 1/5/09	Tue 4/28/09
94	1.8.1.2	PARS II User Guide V1.0	34 days	Mon 6/1/09	Fri 7/17/09
95	1.8.2	PARS II Configuration Parameters Document	20 days	Mon 6/1/09	Fri 6/26/09
96	1.8.3	PARS II Technical Design Document	62 days	Thu 10/1/09	Thu 12/31/09
97	1.8.4	PARS II Access Control Policies and Procedures	33 days	Mon 4/20/09	Thu 6/4/09
98	1.9	C&A Certification	114 days	Mon 1/12/09	Wed 6/24/09
99	1.9.1	PARS II Security Plan	30 days	Mon 1/12/09	Wed 2/25/09
100	1.9.2	PARS II COOP/DR	10 days	Mon 3/2/09	Fri 3/13/09
101	1.9.3	PARS II Configuration Management Plan	6 days	Mon 2/2/09	Tue 2/24/09
102	1.9.4	PARS II ST&E Scripts	15.13 days	Thu 2/19/09	Thu 3/12/09

ID	WBS	Name	Duration	Start	Finish
103	1.9.5	PARS II Security Reviews and Testing	21 days	Mon 3/9/09	Mon 4/6/09
104	1.9.6	C&A Modifications	6 days	Tue 4/7/09	Tue 4/14/09
108	1.9.9	Independent Security Testing	5 days	Fri 5/29/09	Fr 6/4/09
105	1.9.8	PARS II DAAR Approval	0 days	Tue 6/18/09	Tue 6/18/09
106	1.9.7	PARS II V1.0 C&A Accreditation	0 days	Wed 8/14/09	Wed 8/14/09
107	1.10	PARS II Transition Planning	82 days	Wed 1/21/09	Fri 5/15/09
108	1.10.1	PARS II Deployment Plan	74 days	Mon 2/2/09	Fri 5/15/09
109	1.10.2	PARS II Communications Plan	20 days	Wed 1/21/09	Wed 2/18/09
110	1.10.3	PARS II Training Plan	38 days	Wed 3/18/09	Fri 5/8/09
111	1.10.4	PARS II Data Migration Plan	20 days	Mon 3/23/09	Fri 4/17/09
112	1.11	Transition Preparation	221 days	Tue 2/17/09	Thu 12/31/09
113	1.11.1	AHE TRAIN Environment	30 days	Mon 3/2/09	Fri 4/10/09
114	1.11.2	AHE PROD Environment	30 days	Wed 4/1/09	Tue 5/12/09
115	1.11.3	Technical Site Surveys	163 days	Tue 2/17/09	Tue 10/6/09
116	1.11.4	ART & PARS I Data Conversion Scripts	15 days	Mon 4/20/09	Fri 5/8/09
117	1.11.5	Training Materials & Data	157 days	Mon 5/18/09	Thu 12/31/09
118	1.11.5.1	PARS II Training Materials & Data V1.0	25 days	Mon 5/18/09	Mon 6/22/09
119	1.11.5.2	PARS II Training Materials & Data V1.1	26 days	Tue 6/9/09	Wed 7/15/09
120	1.11.5.3	PARS II Web Training	62 days	Thu 10/1/09	Thu 12/31/09
121	1.11.6	PARS II Help Desk	168 days	Fri 5/1/09	Thu 12/31/09
122	1.11.6.1	PARS II Help Desk Setup	32 days	Fri 5/1/09	Tue 6/16/09
123	1.11.6.2	PARS II Help Desk	136 days	Wed 6/17/09	Thu 12/31/09
124	1.11.7	PARS II Acceptance Testing	63 days	Mon 8/3/09	Fri 10/30/09
125	1.11.7.1	PARS II V1.0 Acceptance Testing	20 days	Mon 8/3/09	Fri 8/28/09
126	1.11.7.2	PARS II V1.1 Acceptance Testing	21 days	Thu 10/1/09	Fri 10/30/09
127	1.11.8	PARS II Transition Readiness Milestones	42 days	Tue 9/1/09	Mon 11/2/09
128	1.11.8.1	PARS II V1.0 Go Live Milestone	0 days	Tue 9/1/09	Tue 9/1/09
129	1.11.8.2	PARS II V1.1 Go Live Milestone	0 days	Mon 11/2/09	Mon 11/2/09
130	1.12	PARS II Project Support	322 days	Mon 9/15/08	Thu 12/31/09
131	1.12.1	Project Team Technical Training	194 days	Fri 1/2/09	Thu 10/8/09

ID	WBS	Name	Duration	Start	Finish
132	1.12.2	Configuration Management & Change Control	250 days	Fri 1/2/09	Thu 12/31/09
133	1.12.3	Quality Assurance	269 days	Wed 10/1/08	Thu 12/31/09
134	1.12.4	AHE Test Environment	36 days	Mon 9/15/08	Mon 11/3/08
135	1.12.5	AHE Dev Environment	25 days	Tue 12/9/08	Wed 1/21/09
136	1.13	PARS II 2009 Deployment	126 days	Wed 7/1/09	Thu 12/31/09
137	1.13.1	PARS II V1.0 Data Migration	66 days	Wed 7/1/09	Fri 10/2/09
138	1.13.2	PARS II V1.0 Training	82 days	Mon 8/3/09	Mon 11/30/09
139	1.13.3	PARS II V1.1 Data Migration	3 days	Mon 9/28/09	Wed 9/30/09
140	1.13.4	PARS II V1.1 Training	59 days	Thu 10/1/09	Mon 12/28/09
141	1.13.5	PARS II Deployment Support	126 days	Wed 7/1/09	Thu 12/31/09
142	1.14	PARS II 2010 O&M and Deployment	189 days	Mon 1/4/10	Thu 9/30/10
143	1.14.1	PARS II 2010 Ongoing Deployment	189 days	Mon 1/4/10	Thu 9/30/10
144	1.14.2	PARS II 2010 Maintenance	189 days	Mon 1/4/10	Thu 9/30/10
145	1.14.3	PARS II Help Desk	189 days	Mon 1/4/10	Thu 9/30/10
146	1.15	Transition Support	249 days	Mon 1/5/09	Thu 12/31/09